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APPLICATION

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FOR UNITED STATES LETTERS PATENT

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SPECIFICATION

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TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, FREDERICK L. FALCONER, a citizen of
25 UNITED STATES OF AMERICA, have invented a new and useful LOAD
SUPPORT ASSEMBLY FOR A PICK-UP BED of which the following is a
specification:

LOAD SUPPORT ASSEMBLY FOR A PICK-UP BED

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BACKGROUND OF THE INVENTION

Field of the Invention

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The present invention relates to pick-up load support devices and more particularly pertains to a new pick-up load support device for supporting oversized and, in particular, elongated loads on short bed pick-up trucks.

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Description of the Prior Art

The use of pick-up load support devices is known in the prior art. U.S. Patent No. 6,170,896 describes a device for mounting on the wheel wells of a pick-up truck to form a horizontal support assembly. This device also includes additional mountings for providing additional supports which are substantially level with the wheel wells. Another type of pick-up load support device is U.S. Patent No. 5,871,613 which includes a plurality of supports which are attachable to the inner surfaces of pick-up walls for forming a horizontal support for holding loads above the wheel wells.

While these devices fulfill their respective, particular objectives and requirements, their general premise lies in the pick-up bed being large enough to hold substantially large panels used for siding and flooring which are often 48" wide and 96" long. These panels are typically drywall, paneling or plywood and it is important to transport them in a

substantially horizontal orientation to ensure that the panels are not
damages. Typically, short bed pick-ups have less than 48" between the
wheel wells and are not deep enough from the front to the back to accept
the entire panel. For this reason, the need remains for a device that allows
5 a person transporting such panels to mount the panels above the side walls
of the pick-up bed. Such a configuration would also take advantage of
conventional cross-over toolboxes that are typically positioned within
pick-up beds.

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SUMMARY OF THE INVENTION

The present invention meets the needs presented above by generally comprises a plurality of elongate members each having a first end, a
15 second end, a bottom surface, a top surface, and a pair of lateral sides.
Each of the elongate members has a pair of holes extending therethrough.
Each of the holes is positioned adjacent to one of the first and second ends
and extending through the lateral sides. The bottom surfaces are
selectively positioned on upper edges of side walls of a pick-up bed such
20 that the elongate members traverse the pick-up bed. Each of a plurality of
guides is attached to each of the top surfaces of the elongate members such
that each of the elongate members has a pair of spaced guides attached
thereto. Each of a plurality of fasteners is selectively extendably through
aligned ones of the holes and into a toolbox positioned in the pick-up bed
25 for attaching the elongate members to the toolbox.

There has thus been outlined, rather broadly, the more important
features of the invention in order that the detailed description thereof that
follows may be better understood, and in order that the present
30 contribution to the art may be better appreciated. There are additional

features of the invention that will be described hereinafter and which will form the subject matter of the claims appended hereto.

The objects of the invention, along with the various features of
5 novelty which characterize the invention, are pointed out with particularity
in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

10 The invention will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

15 Figure 1 is a schematic perspective view of a load support assembly for a pick-up bed according to the present invention.

Figure 2 is a schematic perspective top view of the present invention.

20 Figure 3 is a schematic perspective bottom view of the present invention.

Figure 4 is a schematic front view of the present invention.

25 Figure 5 is a schematic perspective view of the present invention.

Figure 6 is a schematic side view of a mounting of the present invention.

30 Figure 7 is a schematic top view of a mounting of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the drawings, and in particular to Figures 1 through 7 thereof, a new pick-up load support device embodying the principles and concepts of the present invention and generally designated
5 by the reference numeral 10 will be described.

As best illustrated in Figures 1 through 7, the load support assembly 10 for a pick-up bed is an assembly for positioning on a pick-up bed 4 having a cross-over toolbox 5 positioned therein. The pick-up bed 4 has a rear end 6, a front end 7, and a pair of side walls 8. Each of the side walls 8 has an upper edge 9. The cross-over toolbox 4 traverses the pick-up bed 4 and rests on the upper edges 9 of the side walls 8 and is positioned adjacent to the rear end 6.

15 The assembly generally comprises a plurality of elongate members 12 that each has a first end 14, a second end 16, a bottom surface 18, a top surface 20, and a pair of lateral sides 22. Each of the elongate members 12 has a pair of holes 24 extending therethrough. Each of the holes 24 is positioned adjacent to one of the first 14 and second 16 ends and each
20 extends through the lateral sides 22. The elongate members 12 each have a length greater than sixty inches from the first end 14 to the second end 16, a height generally between two inches and three inches from the bottom surface 18 to the top surface 20, and a width generally between one inch and two inches. Ideally, each of the elongate members 12 has a
25 length equal to sixty four inches. The bottom surfaces 18 are selectively positioned on the upper edges 9 of the side walls 8 such that the elongate members 12 traverse the pick-up bed 4. Preferably, a plurality of loops 26 are provided and each of the loops 26 is selectively coupled to one of the first 14 and second 16 ends of the elongate members.

Each of a plurality of guides 28 is attached to each of the top surfaces 20 of the elongate members 12 such that each of the elongate members 12 has a pair of guides 28 attached thereto. The guides 28 extend upwardly from the top surfaces 20. Ideally, each of the guides 28 of the 5 pair of guides 28 is positioned forty-eight inches apart and each of the guides 28 of the pair of guides 28 is substantially equidistant from the first 14 and second 16 ends of the elongate member 12. This will ensure that the guides 28 one adjacent elongated members 12 are substantially aligned along lines orientated parallel to the side walls 8 of the pick-up bed 4.

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Each of a plurality of stabilizers 30 is selectively extendable into each of the bottom surfaces 18 of the elongate members 12 such that each of the elongate members 12 has a pair of stabilizers 30 extended therein. The stabilizers 30 each extend downwardly from the bottom surfaces 18.

15 Each of the stabilizers 30 of the pair of stabilizers is spaced from each other and is positioned such that each of the pair of stabilizers 30 abuts an inner surface of one of the side walls 8 of the pick-up bed 4. The stabilizers 30 help to prevent lateral movement of the elongate members 12 when they are positioned on the upper edges 9 of the side walls 8.
20 Ideally, the stabilizers 30 include a bulbous head portion 32 and a threaded rod 34 that can be extended into the intended bottom surface 18. The bottom surface 18 preferably has aligned indicia markings 36 thereon for aiding the user of the assembly 10 in selecting the positioning of the stabilizers 30 in the elongate members 12. The markings 36 are preferably 25 matched as pairs wherein each the markings 36 in a pair is equidistant from one of the first 14 and second 16 ends of the elongate members 12. This ensures that the stabilizers 30 are equidistant from the first 14 and second 16 ends.

Each of a pair of fasteners 38 is selectively extendably through aligned ones of the holes 24 and into the toolbox 5 for attaching the elongate members 12 to the toolbox 5 to define a storage position of the elongate members 12. The storage position is used to hold the elongate 5 members 12 against the toolbox 5 when they are not being used. This is preferred over positioning the elongate members 12 into the pick-up bed 4 itself as the present assembly is primarily used for short pick-up beds not having enough length and width for transporting oversized panels 3. For that reason, the elongate members 12 will not easily be fitted within the 10 pick-up bed 4 and a storage position is preferred abutting the top edges 9 of the side walls 8.

In use, the elongate members 12 are spaced out as needed along a length of the pick-up bed 4. Ideally, the top surfaces 20 of the elongate 15 members 12 are level with a top surface of the cross-over toolbox 5 so that the toolbox 5 may aid in supporting oversized panel 3 loads. If the toolbox 5 is higher than the elongate members, mounts 40 may be positioned on the upper edges 9 of the side walls 8. The mounts 40 preferably include a base 42 and a plate 44 extending upwardly away 20 therefrom. The bases 42 each have a slot 46 extending downwardly therein. A well 48 is positioned in the slot 46 and a pair of apertures 50 extends through the bases 42 on either side of the slot 46. The apertures 50 receive screws, bolts or other conventional securing members for securing the base 42 onto the top edges 9 of the walls 8. The plates 44 25 each have a width substantially equal to a width of the slot 46 so that the plate 44 may be extended therein. A post 52 is attached to a bottom side 54 of the plate 44 for extending into the well 48. Nails or other securing members may be extended through elongate members 12 and into a top side 56 of one of the plates 44. When the mounts 40 are used to level the 30 top surfaces 20 with the toolbox 5, the stabilizers 30 are not required as

the mounts 40 stabilize the elongate members 12. It should be noted that the assembly 10 may be used without the toolbox 5 and that the toolbox 5 forms no part of the claimed invention. The toolbox 5, however, does add stability when supporting a load and provides an attachment area for the
5 storing of the elongate members 12. If the toolbox 5 is not used, additional elongate members 12 may be used with or without additional mounts 50. Alternatively, elongated members having right-angled bends therein for extending over the sides walls 8, not shown, may be used as a primary support in place of the tool box 5.

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Once the elongate members 12 are in position, oversized panels 3 may be positioned on the elongate members 12 and toolbox 5 so that they are supported in a substantially horizontal orientation. The panels 3 are positioned between the guides 28 to prevent their movement on the
15 elongate members 12. Tethers 58, such as cord or rope, may be strung through the loops 26 and wrapped over the panels 3 so that they are secured against the elongate members 12.

With respect to the above description then, it is to be realized that
20 the optimum dimensional relationships for the parts of the invention, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be
25 encompassed by the present invention.

Therefore, the foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to
30 limit the invention to the exact construction and operation shown and

described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.